Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0604800M: (U) Joint Strike Fighter (JSF) - EMD

BA 5: Development & Demonstration (SDD)

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	-	667.916	670.723	-	670.723	741.600	703.575	585.759	459.571	Continuing	Continuing
2262: Joint Strike Fighter EMD STOVL	-	667.916	670.723	-	670.723	741.600	703.575	585.759	459.571	Continuing	Continuing

#### Note

This Program Element (PE) continues development efforts budgeted in PE 0603800N since FY 02. Effective with the President's Budget FY 11 budget submission, the F-35B United States Marine Corps (USMC) Short Take-off Vertical Landing (STOVL) and F-35C United States Navy (USN) Carrier Variant (CV) budgets are reported against separate budget line items and PEs. Starting in FY 11, the F-35B budget is reported against the newly created PE 0604800M. The F-35C USN budget continues to report under PE 0604800N.

# A. Mission Description and Budget Item Justification

The F-35 Lightning II Joint Strike Fighter (JSF) program will develop and field a family of aircraft that meets the needs of the USN, USAF, USMC, and allies, with maximum commonality among the variants, consistent with National Disclosure Policy, to minimize life cycle costs. This is a joint program with no executive service. Navy and Air Force each provide approximately equal shares of annual funding to the program. The United Kingdom, (seven) other International countries, and (four) Foreign Military Sales cases are participants in the JSF Program. The program combines USN, USMC, USAF, and International Partner funding. The top line PE cost reflects USMC F-35B Short Take-Off and Vertical Landing (STOVL) budgetary information only. However, funding at the accomplishment/planned program level is reported in total (all services and partners) as the activities support all aircraft variants. Within the Navy, funding is a roughly equal contribution of annual funding by the USN and USMC.

Funding under this USN program element supports core F-35 System Development and Demonstration (SDD) objectives and aircraft Follow-on Development efforts.

The overall SDD Budget funds a total quantity of 20 RDT&E test articles to include 6 ground test articles and 14 flight test articles for Navy and Air Force use. The following fiscal year phasing of the test articles reflects the scheduled first flight of each flight test asset or production line roll out of each ground test asset:

- FY07: 1 Conventional Take Off and Landing (CTOL) flight test article
- FY08: 1 Short Take Off and Vertical Landing (STOVL) flight test article, 1 STOVL ground test
- FY09: 1 STOVL flight test article, 2 CTOL ground test articles
- FY10: 6 flight test articles (3 CTOL, 2 STOVL, 1 Carrier Variant (CV)), 3 ground test articles (1 STOVL, 2 CV)
- FY11: 4 flight test articles (1 CTOL, 1 STOVL, 2 CV)
- FY12: 1 flight test article (CV)

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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY

**R-1 ITEM NOMENCLATURE** 1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	-	667.916	594.004	-	594.004
Current President's Budget	-	667.916	670.723	-	670.723
Total Adjustments	-	-	76.719	-	76.719
<ul> <li>Congressional General Reductions</li> </ul>		-			
<ul> <li>Congressional Directed Reductions</li> </ul>		-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>		-			
<ul> <li>Congressional Directed Transfers</li> </ul>		-			
<ul> <li>Reprogrammings</li> </ul>	-	-			
<ul> <li>SBIR/STTR Transfer</li> </ul>	-	-			
<ul> <li>Program Adjustments</li> </ul>	-	-	88.526	-	88.526
<ul> <li>Rate/Misc Adjustments</li> </ul>	-	-	-11.807	-	-11.807

# **Change Summary Explanation**

Financial: Financial adjustments reflect increased funding associated with the 2-year extension of SDD Program.

Schedule: Significant changes to schedule reflect program restructure resulting from a critical Nunn-McCurdy breach and Acquisition Decision Memorandum quidance (dated 2 June 2010) as well as subsequent two-year extension of program to accommodate completion of Development Testing/Operational Testing. Schedule now includes detail for Test and Evaluation of JSF variants. Specific slips associated with this restructure include: CV 1st flight occurred in 3rd Quarter FY 10, Block 2 Operational Test & Evaluation to conclude in 4th Quarter FY 15, and Block 3 Operational Test & Evaluation to conclude 2nd Quarter 2016. Performance Based Logistics (PBL) (increasing scale and fidelity thru MYP), Follow-on Development, and Dual Capability Aircraft Integration have been added to the schedule.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy	DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
1319: Research, Development, Test & Evaluation, Navy	PE 0604800M: (U)Joint Strike Fighter (JSF) -	2262: Joint	Strike Fighter EMD STOVL
BA 5: Development & Demonstration (SDD)	EMD		

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2262: Joint Strike Fighter EMD STOVL	-	667.916	670.723	-	670.723	741.600	703.575	585.759	459.571	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

### Note

This Program Element (PE) continues development efforts budgeted in PE 0603800N since FY 02.

Articles are no longer shown in the "Quantity of RDT&E Articles" section of the budget in FY 10, FY 11, & FY 12 as all articles were started in prior years. In the previous budgets the articles have been shown in the budget based on year first flight when they should have been shown based on when work was first commenced on the article. FY 10 flight test articles were started in FY 07. FY11 flight test articles were started in FY 08. FY12 flight test article was started in FY 09.

# A. Mission Description and Budget Item Justification

The F-35 Lightning II Joint Strike Fighter (JSF) program will develop and field a family of aircraft that meets the needs of the USN, USAF, USMC, and allies, with maximum commonality among the variants, consistent with National Disclosure Policy, to minimize life cycle costs. This is a joint program with no executive service. Navy and Air Force each provide approximately equal shares of annual funding to the program. The United Kingdom, (seven) other International countries, and (four) Foreign Military Sales cases are participants in the JSF Program. The program combines USN, USMC, USAF, and International Partner funding. The top line PE (R-2) cost reflects USMC F-35B Short Take-Off and Vertical Landing (STOVL) budgetary information only. However, funding at the accomplishment/planned program level (R-2A) is reported in total (all services and partners) as the activities support all aircraft variants. Within the Navy, funding is a roughly equal contribution of annual funding by the USN and USMC.

The overall System Development and Demonstration (SDD) Budget funds a total quantity of 20 RDT&E test articles to include 6 ground test articles and 14 flight test articles for Navy and Air Force use. The following fiscal year phasing of the test articles reflects the scheduled first flight of each flight test asset or production line roll out of each ground test asset:

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- FY09: 1 STOVL flight test article, 2 CTOL ground test articles
- FY10: 6 flight test articles (3 CTOL, 2 STOVL, 1 Carrier Variant (CV)), 3 ground test articles (1 STOVL, 2 CV)
- FY11: 4 flight test articles (1 CTOL, 1 STOVL, 2 CV)
- FY12: 1 flight test article (CV)

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: SDD	2,836.180	1,648.472	1,751.553

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: Feb	oruary 2011	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD	PROJEC 2262: Joi	ECT Joint Strike Fighter EMD S		OVL
B. Accomplishments/Planned Programs (\$ in Millions, Article	e Quantities in Each)		FY 2010	FY 2011	FY 2012
		Articles:	0	0	0
<b>FY 2010 Accomplishments:</b> Continued SDD execution of the Air System, with Lockheed Marairframe, vehicle systems, mission systems, autonomic logistics,		ıded			
FY 2011 Plans: Continue SDD execution of the Air System, with Lockheed Martin airframe, vehicle systems, mission systems, autonomic logistics,	·	des			
FY 2012 Plans: Continue SDD execution of the Air System, with Lockheed Martin airframe, vehicle systems, mission systems, autonomic logistics,		des			
Title: F135 Propulsion System		Articles:	458.329 0	360.000 0	360.000 0
FY 2010 Accomplishments: Continued SDD execution of the F135 Propulsion System with P integration and performing technology maturation efforts.	Pratt & Whitney that included engine testing, autonomic lo	ogistics,			
FY 2011 Plans: Continue SDD execution of the F135 Propulsion System with Praintegration and performing technology maturation efforts.	att & Whitney to include engine testing, autonomic logisti	ics,			
<b>FY 2012 Plans:</b> Continue SDD execution of the F135 Propulsion System with Praintegration and performing technology maturation efforts.	att & Whitney to include engine testing, autonomic logisti	ics,			
Title: F136 Propulsion System		Articles:	415.918 0	-	-
FY 2010 Accomplishments: Congressional Add funding for continued F136 Propulsion Syste DoN 2012 budget submission for PE 0604800N) by the General					
Title: System Engineering		Articles:	28.176 0	39.264 0	45.457 0
FY 2010 Accomplishments:					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: Fel	oruary 2011	
APPROPRIATION/BUDGET ACTIVITY  1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)  R-1 ITEM NOMENCLATURE PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD				ter EMD STO	DVL
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2010	FY 2011	FY 2012
Continued SDD Systems Engineering which included systems op requirements integration, and interoperability support.	perations requirements analysis, program integration,				
<b>FY 2011 Plans:</b> Continue SDD Systems Engineering including systems operation integration, and interoperability support.	s requirements analysis, program integration, requirem	ents			
FY 2012 Plans: Continue SDD Systems Engineering including systems operation integration, and interoperability support.	s requirements analysis, program integration, requirem	ents			
Title: Development Test and Evaluation		Articles:	149.547 0	281.000 0	323.150 0
FY 2010 Accomplishments:  Continued government Development Test and Evaluation (DT&E) six flight test and three ground assets. FY10 tasks originally supply a restructured test schedule only Block 0.5 tests were completed 1 Training was continued on Block 1 software. Flight sciences test vehicle performance envelope requirements, and envelope expart LRIP envelope requirements and to support mission systems test weapons integration testing, and component capabilities testing.	oorted a Block I and Block II mission systems DT&E bur and testing to support initial Low Rate Initial Production sting on CTOL variant was completed to meet initial LR asion testing continued on all three variants to meet the	t due to n (LRIP) tIP air ir initial			
FY 2011 Plans: Continue government DT&E/Operational Evaluation in support of training. Continue flight sciences testing of CTOL, STOVL, and C systems testing. Commence and complete Block 1 Mission System DT&E included preparation for flight testing, weapons integration	CV variants to expand the air vehicle envelope to suppoems flight test, and commence Block 2 flight test. Elem	rt mission			
FY 2012 Plans: Continue government DT&E/Operational Testing in support of testing to expand the air vehicle envelope to support mission included preparation for flight testing, weapons integration testing	n systems testing to include initial Block 2B. Elements of				
Title: Development Support		Articles:	121.579 0	158.291 0	237.128 0
FY 2010 Accomplishments:					
			<u></u>		

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: Fe	oruary 2011	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604800M: (U)Joint Strike Fighter (JSF) - EMD	PROJECT 2262: Joint Strike Fighter EMD STOVL			)VL
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2010	FY 2011	FY 2012
Continued SDD Support efforts for airframe, air vehicle systems, autonomic logistics development activities.	mission systems, weapons integration, mission suppor	t, and			
FY 2011 Plans: Continue SDD Support efforts for airframe, air vehicle systems, nautonomic logistics development activities.	nission systems, weapons integration, mission support,	and			
FY 2012 Plans: Continue SDD Support efforts for airframe, air vehicle systems, nautonomic logistics development activities.	nission systems, weapons integration, mission support,	and			
Title: Program Management Support		Articles:	71.478 0	75.478 0	103.447 0
FY 2010 Accomplishments: Continued management support services, travel, engineering tec of program objectives.	hnical services, and studies analyses and evaluations i	n support			
FY 2011 Plans: Continue management support services, travel, engineering tech of program objectives.	nnical services, and studies analyses and evaluations ir	n support			
<b>FY 2012 Plans:</b> Continue management support services, travel, engineering tech of program objectives.	nnical services, and studies analyses and evaluations ir	n support			
Title: Follow-On Development		Articles:	-	57.724 0	37.874 0
FY 2011 Plans: Initiate follow-on development Block IV capabilities to include log required to support F-35 variants. Efforts will support aircraft and FY 15 and will integrate urgent operationally relevant requirement	engine delivery to services and partner nations comme				
FY 2012 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy	DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
1319: Research, Development, Test & Evaluation, Navy	PE 0604800M: (U)Joint Strike Fighter (JSF) -	2262: Joint	Strike Fighter EMD STOVL
BA 5: Development & Demonstration (SDD)	EMD		

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Continue follow-on development Block IV capabilities to include logistics, weapons, security, sensors, survivability, and upgrades required to support F-35 variants. Efforts will support aircraft and engine delivery to services and partner nations commencing in FY 15 and will integrate urgent operationally relevant requirements post-IOC.			
Accomplishments/Planned Programs Subtotals	4,081.207	2,620.229	2,858.609
Navy	1,672.067	707.791	677.486
Air Force	2,033.521	1,043.610	1,387.926
International	161.511	200.912	122.474
Congressional Add	214.108	-	-
Navy Subtotals	0.000	667.916	670.723

#### C. Other Program Funding Summary (\$ in Millions) **Cost To** FY 2012 FY 2012 FY 2012 OCO Line Item **FY 2010** FY 2011 **Base Total** FY 2013 FY 2014 FY 2015 FY 2016 Complete Total Cost • RDTEF/0604800F: Joint Strike 2,033.521 1,043.610 1,387.926 0.000 1,387.926 1,198.293 933.452 608.211 361.064 0.000 22,029.126 Fighter • International: International 161.511 0.000 5,108.601 200.912 122.474 0.000 122.474 144.220 2.800 0.000 0.000 Partner (SDD/FOD) • APE/02071/2E: E-35 Joint Strike

• APF/0207142F: F-35 Joint Strike	2,357.949	4,191.142	3,664.092	0.000	3,664.092	3,764.260	5,285.022	5,985.244	7,703.5251	147,239.170	81,851.032
Strike Fighter											
RDTEN/0604800N: JT Strike	1,886.175	707.791	677.486	0.000	677.486	744.516	706.512	588.704	462.301	0.000	20,155.035
Fighter (JSF) - EMD											
APN/0152: F-35 Joint Strike	0.000	2,576.142	1,259.162	0.000	1,259.162	1,296.310	1,379.916	1,865.005	2,709.859	24,536.751	35,623.145
Fighter STOVL											
APN/0605B: F-35 Joint Strike	0.000	164.135	66.430	0.000	66.430	33.290	63.484	124.791	224.075	2,143.575	2,819.780
Fighter STOVL Spares											
APN/0147: F-35 Joint Strike	4,449.336	1,886.988	1,720.762	0.000	1,720.762	2,405.858	2,429.364	2,952.444	2,790.723	25,972.535	47,648.943
Fighter CV											
APN/0605C: F-35 Joint Strike	248.184	107.030	86.902	0.000	86.902	101.272	331.063	313.699	91.696	1,777.785	3,240.139
Fighter CV Spares											
OPN/4265: Other Aviation	3.017	5.410	5.665	0.000	5.665	3.848	4.895	5.615	5.670	0.000	37.932
Support Equipment											

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0604800M: (U)Joint Strike Fighter (JSF) -	2262: Joint Strike Fighter EMD STOVL
BA 5: Development & Demonstration (SDD)	EMD	

## C. Other Program Funding Summary (\$ in Millions)

			FY 2012	FY 2012	FY 2012					<b>Cost To</b>	
<u>Line Item</u>	FY 2010	FY 2011	<b>Base</b>	OCO	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	<b>Complete</b>	<b>Total Cost</b>
International 2: International	727.462	733.662	1,372.790	0.000	1,372.790	3,010.270	4,791.820	7,367.040	6,817.100	0.000	24,820.144
Procurement											
• AF MILCON 0207142: <i>USAF</i>	67.529	139.640	31.050	0.000	31.050	89.000	72.000	69.050	65.000	0.000	533.269
MILCON											
APF: USAF Modification Funding	0.000	0.000	123.936	0.000	123.936	0.000	0.000	0.000	0.000	25,972.535	26,096.471
• FOD/0207142F: USAF Follow-on	0.000	57.724	47.841	0.000	47.841	132.495	131.844	129.164	151.614	0.000	650.682
Development											
• 0207142F,USAF Spares: <i>USAF</i>	129.296	263.573	151.469	0.000	151.469	322.076	340.956	508.599	770.495	1,777.785	4,325.345
Spares											

## D. Acquisition Strategy

A summary of the aquisition strategy for the F-35B and the F-35C follows.

Activities in the prior phase of JSF centered around three distinct objectives to provide a sound foundation for the start of SDD in Fall 2001:

- (1) facilitated the Services' development of fully validated, affordable operational requirements.
- (2) lowered risk by investing in and demonstrating key leveraging technologies that lowered the cost of development, production, and ownership.
- (3) demonstrated operational concepts.

Early warfighter and technologist interaction was an essential aspect of the requirements definition process. To an unprecedented degree the JSF Program used cost-performance trades early, as an integral part of the weapon system development process. The Services defined requirements through an iterative process, balancing weapon system capability against life cycle cost at every stage. Each iteration of requirements was provided to industry. They evolved their designs and provided cost data back to the warfighters. The warfighters evaluated trades and made decisions for the next iteration. This iterative process produced iterations of the Services' Joint Interim Requirements Documents in 1995, 1997, 1998 and culminated in the approved joint Operational Requirements Document in FY 00.

A sizable technology maturation effort was conducted to reduce risk and life cycle cost through technology maturation and demonstrations. The primary emphasis was on technologies identified as high payoff contributors to affordability, survivability, and lethality. Numerous demonstrations were accomplished to validate performance and life cycle cost impact to component, subsystem, and the total system.

In November 1996, contracts were awarded to Boeing and Lockheed Martin for Concept Demonstration Programs. These competing contractors built and flew concept demonstrator aircraft, conducted concept unique ground demonstrations, and refined their respective weapon system concepts. Specifically, Boeing and Lockheed Martin demonstrated commonality and modularity, STOVL hover and transition, and low speed handling qualities of their respective weapon system concepts. Pratt

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
1319: Research, Development, Test & Evaluation, Navy	PE 0604800M: (U)Joint Strike Fighter (JSF) -	2262: Joint	Strike Fighter EMD STOVL
BA 5: Development & Demonstration (SDD)	EMD		

and Whitney provided propulsion hardware and engineering support. General Electric continued development of a second, interchangeable, engine for competition in production.

Following evaluation of proposals and a favorable Milestone B decision, the JSF Program entered SDD on 26 Oct 2001 with SDD contract awards to Lockheed Martin and Pratt & Whitney. The SDD plan reflected a block approach, based on open systems architecture, for accomplishing aircraft and weapons integration. General Electric continued propulsion development efforts through FY 09 when program funding ended.

Follow-on Development will continue the evolutionary approach of SDD by providing capability enhancements through an incremental methodology. The Joint Capabilities Integration and Development System and Defense Acquisition System shall provide the framework and basis for defining, managing and acquiring the envisioned F-35 enhancements. The plan for each follow-on increment will include all the development, integration and verification testing of those capabilities. Additionally, the non-recurring efforts for cut-in of retrofit, production and sustainment will be included. Retrofit planning will be based on upgrading all previously fielded aircraft to the latest increment in order to limit the number of configurations, thus reducing life cycle cost. Retrofit execution will be in accordance with the stakeholder's direction.

These follow-on development efforts will be procured via cost type contracts. It is anticipated that fee provisions will be used to target and motivate contractor performance. The new configurations will be incorporated into production and, if required by the U.S. Services or SDD International Partners, retrofitted to fielded aircraft under F-35 production and sustainment contracts. Similar to SDD, Basic Ordering Agreement and Indefinite Delivery/Indefinite Quantity contracts may be used for trade studies and analyses to supplement Follow-On requirements development.

The updated JSF Acquisition Strategy and program schedule were approved following the May 05 Defense Acquisition Board (DAB). The April 06 DAB authorized full funding for LRIP I procurement. USAF LRIP I Advance Procurement funding was awarded during FY 06, followed by the USAF Regular Procurement award in FY 07. USAF and DoN Advance Procurement funding for LRIP II was awarded during FY 07. USAF LRIP II full-funding contract award occurred in April 08. DoN LRIP II full funding contract was awarded in July 08, upon successful first flight of the DoN STOVL aircraft (in conventional flight mode). USAF and DoN Advance Procurement funding for LRIP III was awarded in May 08, LRIP III full funding was awarded in June 09. LRIP IV advance procurement was awarded in March 09 and full funding contract award occurred in early 4th Quarter FY 10. LRIP V advance procurement contract was awarded 3rd Quarter FY10. LRIP V full funding contract planned for 4th Quarter FY 11.

The F-35 Program experienced a Nunn-McCurdy breach during FY 10, was restructured for the President's Budget FY 11 budget, and was recertified by Office of the Secretary of Defense Aquisition Decision Memorandum (2 June 2010). Milestone B (granted in October 2001) was rescinded. As a result of a December 2010 Secretary of Defense decision, based on a JSF Technical Baseline Review (TBR), SDD was extended by 2 years and funding increased by \$4.6 billion to accommodate completion of DT/OT.

#### E. Performance Metrics

Combat Radius

CTOL Meets/Exceeds Tripwire Requirement
CV Meets/Exceeds Tripwire Requirement

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**PROJECT** 

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0604800M: (U)Joint Strike Fighter (JSF) - 2262: Joint Strike Fighter EMD STOVL

**EMD** 

BA 5: Development & Demonstration (SDD)

STOVL Meets/Exceeds Tripwire Requirement

**CV** Recovery

Maximum Approach Speed Meets/Exceeds Requirement In Tripwire Band

STOVL Performance

Flat Deck (High-High Profile Fuel) Meets/Exceeds Requirement In Tripwire Band

Ski Jump (High-Medium-Medium-High Profile Fuel) Meets/Exceeds Requirement In Tripwire Band

Vertical Landing Bring Back Meets/Exceeds Requirement In Tripwire Band

Interoperability

Net Ready Criteria- Meets/Exceeds Requirement In Tripwire Band

Radio Frequency Signature Meets/Exceeds Tripwire Requirement

Mission Reliability

CTOL Meets/Exceeds Tripwire Requirement

CV Exceeds Ord Objective

STOVL USMC Meets/Exceeds Tripwire Requirement STOVL UK Meets/Exceeds Tripwire Requirement

Sortie Generation Rate

CTOL Meets/Exceeds Tripwire Requirement
CV Meets/Exceeds Tripwire Requirement

STOVL USMC Meets/Exceeds Tripwire Requirement STOVL UK Meets/Exceeds Tripwire Requirement

Logistics Footprints C-17

CTOL Meets/Exceeds Tripwire Requirement
STOVL USMC Meets/Exceeds Tripwire Requirement

Logistics Footprint- Volume

CV Exceeds Ord Objective

STOVL USMC Meets/Exceeds Tripwire Requirement STOVL UK Meets/Exceeds Tripwire Requirement

Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
1319: Research, Development, Test & Evaluation, Navy	PE 0604800M: (U)Joint Strike Fighter (JSF) -	2262: Joint	Strike Fighter EMD STOVL
BA 5: Development & Demonstration (SDD)	EMD		

Logistics Footprint-Weight

CV Exceeds Ord Objective

STOVL USMC Exceeds Ord Objective

STOVL UK Meets/Exceeds Tripwire Requirement

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604800M: (U)Joint Strike Fighter (JSF) -

EMD

**DATE:** February 2011

PROJECT

2262: Joint Strike Fighter EMD STOVL

Product Development (\$	oduct Development (\$ in Millions)			FY 2	2011	FY 2 Ba	-		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary H/W Development - SDD	C/CPAF	Lockheed Martin:Ft. Worth, TX	25,935.737	1,643.535	Oct 2010	1,747.553	Oct 2011	-		1,747.553	4,570.645	33,897.470	27,514.470
Primary H/W Development - IDIQ (0022)	C/CPAF	Lockheed Martin:Ft. Worth, TX	6.982	4.937	Sep 2011	4.000	Sep 2012	-		4.000	6.500	22.419	17.328
Primary H/W Development - IDIQ (0009)	C/CPAF	Lockheed Martin:Ft. Worth, TX	16.759	-	Oct 2010	-	Oct 2011	-		-	0.000	16.759	2,143.850
Primary H/W Development - BOA(3104)	SS/CR	Lockheed Martin:Ft. Worth, TX	3.511	-	Oct 2010	-	Oct 2011	-		-	0.000	3.511	6,668.763
Primary H/W Development - SDD (3003)	SS/CPAF	Pratt & Whitney:Hartford, CT	6,530.993	360.000	Dec 2010	360.000	Dec 2011	-		360.000	916.462	8,167.455	642.155
Primary H/W Development (C-0132)	SS/CPAF	Pratt & Whitney:Hartford, CT	1.364	-	Jan 2011	-	Oct 2011	-		-	0.000	1.364	346.694
Primary H/W Development (C-0050)	SS/CPAF	Pratt & Whitney:Hartford, CT	2.211	-	Jan 2011	-	Oct 2011	-		-	0.000	2.211	14.450
Primary H/W Development BOA(G-3053)	SS/CPAF	Pratt & Whitney:Hartford, CT	35.983	-	Oct 2010	-	Oct 2011	-		-	0.000	35.983	
Primary H/W Development IDIQ (D-0077)	SS/CPAF	Pratt & Whitney:Hartford, CT	10.925	-	Oct 2010	-	Oct 2011	-		-	0.000	10.925	
Primary H/W Development GE (C-0093)	SS/CPAF	Pratt & Whitney:Hartford, CT	2,086.285	-		-		-		-	0.000	2,086.285	2,466.974
Primary H/W Development GE (C-0009)	SS/CPAF	GE:Cinn, Ohio	0.264	-		-		-		-	0.000	0.264	
Primary H/W Development GE (04-D-0074	SS/CPAF	GE:Cinn, Ohio	4.175	-		-		-		-	0.000	4.175	
Primary H/W Dev0elopment GE (04-C-0102	SS/CPAF	GE:Cinn, Ohio	100.400	-		-		-		-	0.000	100.400	
Primary H/W Development GE (02-G-3236	SS/CPAF	GE:Cinn, Ohio	5.548	-		-		-		-	0.000	5.548	
Primary H/W Development GE (96-C-0176	SS/CPAF	GE:Cinn, Ohio	382.753	-		-		-		-	0.000	382.753	
Product Development Systems Engineering	Various	Various:Various	253.788	39.264	Oct 2010	45.457	Oct 2011	-		45.457	109.670	448.179	

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy

R-1 ITEM NOMENCLATURE

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

**PROJECT** 

1319: Research, Development, Test & Evaluation, Navy

PE 0604800M: (U)Joint Strike Fighter (JSF) -**EMD** 

2262: Joint Strike Fighter EMD STOVL

BA 5: Development & Demonstration (SDD)

Product Development (	\$ in Millio	ns)		FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
NAWC CHLK FOD	Various	NAWC:China Lake	-	-		0.202	Oct 2011	-		0.202	1.653	1.855	
NAWC PAX FOD	Various	NAWC:PAX	-	-		0.142	Oct 2011	-		0.142	1.332	1.474	
PRIME LM FOD	Various	Lockheed Martin:Ft.Worth, TX	-	54.845	Oct 2010	32.712	Oct 2011	-		32.712	234.757	322.314	
PRIME ENGINE P&W FOD	Various	ratt & Whitney:Hartford, CT	-	2.000	Oct 2010	2.000	Oct 2011	-		2.000	8.000	12.000	
Systems Engineering FOD	Various	Various:Various	-	0.067	Oct 2010	0.344	Oct 2011	-		0.344	2.985	3.396	
		Subtotal	35,377.678	2,104.648		2,192.410		-		2,192.410	5,852.004	45,526.740	

#### Remarks

Note: Target Values of prime contracts differ from Total Cost because (a) Lockheed Martin and Pratt & Whitney Contracts have not been modified to reflect planned funding allocations and (b) no funds are budgeted for F136 (General Electric/Rolls Royce (GE/RR) Fighter Engine Team (FET)) beyond FY10. Cumulative Award Fee Earned in prior years for Lockheed Martin is 82.1%. Cumulative Award Fee Earned in prior years for Pratt & Whitney is 85.2%.

Support (\$ in Millions)	,		,		FY 2011		FY 2 Ba	2012 se	FY 2	2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Development Support	Various	Eglin AFB:Eglin, FL	90.108	14.873	Oct 2010	14.929	Oct 2011	-		14.929	48.545	168.455		
Development Support	Various	ASC/AFRL:Dayton, OH	45.793	3.768	Oct 2010	7.625	Oct 2011	-		7.625	39.553	96.739		
Development Support	Various	ASC/CIVPAY:Dayton, Ohio	-	-		19.554	Oct 2011	-		19.554	126.714	146.268		
Development Support	Various	Bolling AFB:Washington, DC	6.775	-	Oct 2010	-		-		-	0.000	6.775		
Development Support	Various	DEMA:Various	4.112	10.000	Oct 2010	25.500	Oct 2011	-		25.500	0.000	39.612		
Development Support	MIPR	ESC:Hanscom AFB, MA	6.848	0.305	Oct 2010	0.376	Oct 2011	-		0.376	0.480	8.009		
Development Support	Various	AEDC/Fuel:Arnold, TN	131.403	38.063	Oct 2010	58.764	Oct 2011	-		58.764	58.230	286.460		
Development Support	WR	NAS Jacksonville:Jacksonville FL	, 6.323	1.632	Oct 2010	1.985	Oct 2011	-		1.985	6.255	16.195		

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604800M: (U)Joint Strike Fighter (JSF) -

EMD

PROJECT

2262: Joint Strike Fighter EMD STOVL

**DATE:** February 2011

Support (\$ in Millions)				FY 2	2011	FY 2 Ba	-		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	Various	Various:Various	206.823	21.100	Oct 2010	21.298	Oct 2011	-		21.298	46.457	295.678	
Development Support	Various	NAWC WD:China Lake, CA	93.603	28.874	Oct 2010	33.068	Oct 2011	-		33.068	56.887	212.432	
Development Support	Various	NAWC AD:Patuxent, MD	267.856	37.606	Oct 2010	51.057	Oct 2011	-		51.057	122.972	479.491	
Development Support	Various	NAWC TSD:Orlando, FL	7.750	1.585	Oct 2010	2.362	Oct 2011	-		2.362	4.854	16.551	
Development Support	WR	NSWC:Indian Head, MD	3.360	0.455	Oct 2010	0.572	Oct 2011	-		0.572	0.190	4.577	
Development Support	Various	SPAWAR:San Diego, CA	6.525	0.030	Oct 2010	0.038	Oct 2011	-		0.038	0.134	6.727	
Prior Years costs no longer funded in the FYDP	Various	SIBR Cong ADD:Various	24.187	-		-		-		-	0.000	24.187	
MISC/OTHER FOD	Various	Various:Various	-	-	Oct 2010	0.063	Oct 2011	-		0.063	0.147	0.210	
NAWC CHLK FOD	Various	Various:Various	-	0.327	Oct 2010	0.494	Oct 2011	-		0.494	15.223	16.044	
NAWC PAX FOD	Various	Various:Various	-	0.485	Oct 2010	1.917	Oct 2011	-		1.917	28.279	30.681	
		Subtotal	901.466	159.103		239.602		-		239.602	554.920	1,855.091	

#### **Remarks**

When Various/Various appears in the Contract Method/Type or Funding Vehicle it is normally because Air Force and Navy and sometimes international funding is going to the same site on various funding document types.

Test and Evaluation (\$	in Millions	)		FY 2	FY 2011		FY 2012 Base		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Various	NAWCAD:Patuxent River, MD	226.209	121.877	Oct 2010	130.731	Oct 2011	-		130.731	732.191	1,211.008	
Developmental Test & Evaluation	Various	NAWCWD:China Lake, CA	16.220	11.409	Oct 2010	11.637	Oct 2011	-		11.637	23.771	63.037	
Developmental Test & Evaluation	РО	Edwards AFB:Edwards AFB, CA	283.450	86.850	Oct 2010	94.841	Oct 2011	-		94.841	256.139	721.280	

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604800M: (U)Joint Strike Fighter (JSF) -

EMD

**DATE:** February 2011

PROJECT

2262: Joint Strike Fighter EMD STOVL

Test and Evaluation (\$	st and Evaluation (\$ in Millions)			FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	Various	Various:Various	15.691	19.395	Oct 2010	26.441	Oct 2011	-		26.441	28.050	89.577	
Developmental Test & Evaluation	MIPR	WEPS:Eglin AFB, FL	20.485	14.150	Oct 2010	2.600	Oct 2011	-		2.600	2.800	40.035	
Developmental Test & Evaluation	MIPR	OT-AFOTEC/ AFFTC:Eglin AFB, FL	78.482	23.819	Oct 2010	52.200	Oct 2011	-		52.200	382.840	537.341	
Developmental Test & Evaluation	Various	OT-JITC/ OPTEV:Various	3.841	3.500	Oct 2010	4.700	Oct 2011	-		4.700	35.214	47.255	
Developmental Test & Evaluation	Various	JITC:Various	0.503	-	Oct 2010	-	Oct 2011	-		-	0.000	0.503	
		Subtotal	644.881	281.000		323.150		-		323.150	1,461.005	2,710.036	

Management Services (	(\$ in Millio	ons)		FY 2	2011		2012 se		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management	SS/CPFF	ACT I:Arlington, VA	2.981	2.833	Oct 2010	3.418	Oct 2011	-		3.418	12.872	22.104	21.072
Program Management - Mantech	C/FP	Mantech:Arlington, VA	42.487	7.015	Oct 2010	8.366	Oct 2011	-		8.366	35.336	93.204	88.233
Program Management - PA Consulting	SS/CPFF	PA Consultants:Arlington, VA	-	-	Oct 2010	-	Oct 2011	-		-	0.000	0.000	15.486
Program Management - DRC	C/CPFF	DRC:Arlington, VA	5.916	3.000	Oct 2010	-		-		-	0.000	8.916	8.676
Program Management	C/CPFF	First Principles:Arlington, VA	1.398	1.523	Oct 2010	1.936	Oct 2011	-		1.936	4.105	8.962	6.871
Program Management	Various	ASC CIVPAY:VARIOUS	-	-		3.500	Oct 2011	-		3.500	21.000	24.500	
Program Management	C/CPFF	Wyle:Arlington, VA	78.871	19.305	Oct 2010	27.418	Oct 2011	-		27.418	93.283	218.877	197.674
Program Management	C/CPAF	Saftas:Arlington, VA	77.789	18.200	Oct 2010	26.600	Oct 2011	-		26.600	91.000	213.589	191.562
Program Management	C/CPAF	Stanley:Arlington, VA	131.456	19.800	Sep 2011	27.940	Sep 2012	-		27.940	97.660	276.856	235.299
Program Management	C/CPFF	GE F136-COG Studies:Cinn., OH	0.800	-	Oct 2010	-	Oct 2011	-		-	0.000	0.800	21.040

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604800M: (U)Joint Strike Fighter (JSF) -

EMD

PROJECT

2262: Joint Strike Fighter EMD STOVL

DATE: February 2011

Management Services (	\$ in Millio	ns)		FY 2	2011		2012 se	FY 2		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel and Miscellaneous	Various	Various:Various	11.740	3.802	Oct 2010	4.269	Oct 2011	-		4.269	17.392	37.203	
		Subtotal	353.438	75.478		103.447		-		103.447	372.648	905.011	

#### Remarks

Cumulative Award Fee earned in prior years for Stanley is 99%.

	Total Prior Years Cost	FY	2011	FY 2 Ba	FY 2	2012 CO	FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Subtotals	37,277.463	2,620.229		2,858.609	-		2,858.609	8,240.577	50,996.878	
Navy		707.791		677.486	-		677.486			
Air Force		1,043.610		1,387.926	-		1,387.926			
International		200.912		122.474	-		122.474			
Congressional Add		-		-	-		-			
Project Cost Totals	37,277.463	667.916		670.723	-		670.723	8,240.577	50,996.878	

#### Remarks

Subtotals and totals may not add due to rounding.

Note: Target Values of prime contracts differs from Total Cost because (a) Lockheed Martin and Pratt & Whitney Contracts have not been modified to reflect planned funding allocations and (b) no funds are budgeted for F136 (FET GE/RR) beyond FY10. Total prior year affects actual funds executed.

The following table presents the total dollars distributed in the R2a and R3. This has been done to give a more accurate picture of the total dollars being spent on each task. The Department of the Navy (DoN) funding profile as identified below reflects current execution budget adjustments to include significant Below Threshold Reprogrammings and Small Business Innovation Research reductions.

PΕ FY 10 FY 11 Name FY 12 0604800N 2261 1,641.069 667.915 650.773 Navy Air Force 0604800F 3831 2.033.521 1.043.610 1.387.926 2262 Marine Corps 0604800M 0 667.916 670.723 International (SDD/FOD) 161.511 200.912 122.474 Cong Add\* 0604800N 2261A 214.108

Total Funding 4,081.207 2,620.229 2,858.609

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<sup>\*</sup>Navy Cong Add Alt Engine funding is included in the PU 2261 Exhibits as well as the Cong Add exhibit.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

**PROJECT** 

1319: Research, Development, Test & Evaluation, Navy

PE 0604800M: (U)Joint Strike Fighter (JSF) -

2262: Joint Strike Fighter EMD STOVL

BA 5: Development & Demonstration (SDD)

**EMD** 

**Total Prior** Target Years FY 2012 FY 2012 FY 2012 **Cost To** Value of Cost FY 2011 Base oco Total Complete | Total Cost Contract

Name Navy

ΡU FY 12 FY 10 FY 11 3194 30.998 39.876 26.713

Total 0604800N under separate PUs:

39.876 26.713 30.998

Total F-35 funding associated with PEs 0604800N,

0604800F and 0604800M:

3,919.696 2,419.317 2,736.135

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy	R-4, RDT&E Schedule Profile: PB 2012 Navy					
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604800M: (U) Joint Strike Fighter (JSF) - EMD	PROJECT 2262: Joint Strike Fighter EMD STOVL				

**UNCLASSIFIED** 

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011				
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604800M: (U) Joint Strike Fighter (JSF) - EMD	PROJECT 2262: Joint Strike Fighter EMD STOVL				

**UNCLASSIFIED** 

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0604800M: (U)Joint Strike Fighter (JSF) - 2262: Joint Strike Fighter EMD STOVL

BA 5: Development & Demonstration (SDD) EMD

# Schedule Details

	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
JSF Variants - CV, STOVL & CTOL				
Acquisition Milestones: Carrier Variant First Flight		2010	3	2010
Acquisition Milestones: Services Initial Operating Capability	1	2014	4	2016
Acquisition Milestones: Full Rate Production Decision Review	3	2016	3	2016
Systems Development: Follow on Development		2012	4	2016
Systems Development: Dual Capability Aircraft Integration		2012	4	2016
Systems Development: Reviews: Defense Acquisition Board Program Reviews (DPRs) FY10	1	2010	1	2010
Systems Development: Reviews: DPR FY11	1	2011	1	2011
Systems Development: Reviews: DPR FY12	1	2012	1	2012
Systems Development: Reviews: DPR FY13	1	2013	1	2013
Systems Development: Reviews: DPR FY14	1	2014	1	2014
Systems Development: Reviews: DPR FY15		2015	1	2015
Systems Development: Reviews: DPR FY16		2016	1	2016
Test & Evaluation: Conventional Take Off and Landing (CTOL)		2010	2	2016
Test & Evaluation: Short Take Off and Landing (STOVL)		2010	4	2016
Test & Evaluation: Carrier Variant (CV)		2010	2	2016
Test & Evaluation: Block 2B	3	2012	4	2014
Test & Evaluation: Block 3C	3	2014	2	2016
Test & Evaluation: Operational Evaluation: Initial Operational Test & Evaluation	2	2014	4	2016
Contract Awards: Low Rate Inital Production (LRIP) IV Full Funding	4	2010	4	2010
Contract Awards: LRIP V Long Lead	3	2010	3	2010
Contract Awards: LRIP V Full Funding		2011	4	2011

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0604800M: (U)Joint Strike Fighter (JSF) - 2262: Joint Strike Fighter EMD STOVL

BA 5: Development & Demonstration (SDD)

EMD

Start End **Events by Sub Project** Quarter Year Quarter Year Contract Awards: LRIP VI Long Lead Contract Awards: LRIP VI Full Funding Contract Awards: LRIP VII Long Lead Contract Awards: LRIP VII Full Funding Contract Awards: LRIP VIII Long Lead Contract Awards: LRIP VIII Full Funding Contract Awards: LRIP IX Long Lead Contract Awards: LRIP IX Full Funding Production Deliveries: LRIP I Delivery (APAF) Production Deliveries: LRIP II Delivery (APAF & APN) Production Deliveries: LRIP III Delivery (APAF & APN) Production Deliveries: LRIP IV Delivery (APAF & APN) Production Deliveries: LRIP V Delivery (APAF & APN) Production Deliveries: LRIP VI Delivery (APAF & APN) Production Deliveries: LRIP VII Delivery (APAF & APN) Production Deliveries: LRIP VIII Delivery (APAF & APN) 

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